Original/Duplicate/Triplicate

Final & Final Bill

CONTRACT CERTIFICATE

(For Other Works)

No:

Date:

Division: **R.R Nagar**

Sub- Division: **R.R Nagar** , Electrical

Bill Received No.....Dated.....Cash Book Voucher No.....dated.....

SBR No-142 4/2/19

Scheduled Docket No.

Name of Work (as per sanctioned estimate): **Providing LED Street lights in ward No 16**

Name of Contractor and Full Adress:

BR No-143 4/2/19

Executive Engineer-3, KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LTD. No-18, KNS Complex, 2nd Floor, Near Pavitra Paradise, Basaveshwara Nagar, Bangalore-79.

Work order No : EE/ELE/RRN/W.O/49/2018-19, Dtd: 29-10-2018 **Budget Head:** P3290

Reference to Agreement : EE/ELE/RRN/AG/49/2018-19, Dtd: 29-10-2018 **Job Code:016-18-000004**

Certified that the measurements were taken by me on 25/01 and recorded of page nos 22/1925 to 22/1929 of measurement Book No: 2220 18-19 and that the work is satisfactorily executed.

Contractor

Asst. Executive Engineer KRIDL, BBMP, RR Nagara Bangalore

Officer in charge of work

Certified that the measurements were checked by me on 25/01/19 and found correct. The work is satisfactorily executed.

Cetified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon and normal agreement signed and executed by the contractor is recorded in the office.

EE (Ele.)

Sub-division Officer

II Memorandum of Payment

1) Total value of work done or supplies as per account within
2) Deduct amount to be held in re3serve being .....percent Rs.....
3) " Balance
4) Deduct payment :
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No.....
      Amount adjusted towards cash advance recovery of
   b) Payments cost store or other material supplied.
      Now made recovery amount creditable to this/ other work
      Amount paid on this bill cheque/cash
5) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the Office Cash Book Voucher No..... dated.....less adjustments
7) Net amount due to or from contractor

Unadjusted items

8) Advance to contractor for materials brought to site (as detailed) within
   Value of Government materials supplied

Gross: 990078-00

Adjustments Details

IT : 19802-00

COST SHOST HST : 19802-00

CBF : 990-00

FSD : 49504-00

LC : 9900-00

FINE : —

OTHERS : —

TOTAL : 99998-00

Nett- 890080-00

Ch Amt, 890080/2

Contractors Signature

Asst. Executive Engineer KRIDL, BBMP, RR Nagara Bangalore

Received Rs.....(in words)

.....

by cash and adjustment of payment as per memorandum.

Witnesses :

1.

2.

Dated .....Signature of contractor

Paid by me by cheque No.....Dated .....

Cash Rs.....Dated.....

Asst. Executive Engineer KRIDL, BBMP, RR Nagara Bangalore

Stamp

(For use in the office)

Passed Rs. 990078.00

Cheque Rs. 890080.00

Adjustment Rs. 99998.00 Only

Amount in Words Eight lakh Ninety thousand Eighty only.

Initials of Officer making payment

Executive Engineer (Ele)

Name of the work :-Providing LED Street lights in ward No 16.

	Items Grouped under sub Heads and sub works of the Estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate Rs Ps	Amount Rs ps	Qty	Cost
1	Supply of solar lux level street light controller -single phase 3KW	Each			2	7984.00	15968.00	2	15968.00
2A	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100 v grade, multistrand copper with low conductor resistence single core wire in open or consealed system of wiring wit specified IS-694:1990 & confirming to GTP of group A.. 2.5 sqmm	Per Mtr			4	29.20	116.80	4	116.80
2B	6 sqmm	Per Mtr			8	63.80	510.40	8	510.40
3	LED Street light. Supply of 90 watts LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II. a) 90 w LED	Each			25	31250.00	781250.00	25	781250.00
4	Supplying and Fixing.....mm dia class A GI pipe bracket up to 2.7 meters long terminated with a reducing collar of 40x25mm to which extra pipe of 175mm length is fixed for fixing MV/SV/MH/FTL street light fitting of all capacities on rail/RCC/wall/tubular pole, using suitable clamps, bolts ,nuts and wiring using suitable capacity wires. -Using 32mm dia G.I.pipe	Each			25	1140.00	28500.00	25	28500.00
5	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. -63Amps	Each			2	234.00	468.00	2	468.00
6	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 100-125Amps	Each			2	9915.00	19830.00	2	19830.00

AEE (Ele.)

	Items Grouped under sub Heads and sub works of the Estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate Rs Ps	Amount Rs ps	Qty	Cost
A	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps SP	Each			2	418.00	836.00	2	836.00
B	40-63 Amps SP	Each			2	677.00	1354.00	2	1354.00
8	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint -40x40x6mm	Per Mtr			2	263.00	526.00	2	526.00
9	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. --300mmx450mmx214mm)	Each			2	5826.00	11652.00	2	11652.00
10	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 25 sqmm	Mtr			38	165.60	6292.80	38	6292.80
11	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure -25 sqmm to 75 sqmm	Mtr			38	34.80	1322.40	38	1322.40
12	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 25mm dia	Each			2	86.00	172.00	2	172.00
13A	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 16 sqmm	Each			14	11.31	158.34	14	158.34
13B	25 sqmm Long Barrel	Each			8	20.59	164.72	8	164.72
14	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 2 X 16 + 1 X 25 SQ.MM	Mtr			215	92.00	19780.00	215	19780.00
15	Supply and fixing of .....cross arm including all Hardware's complete as per the standard technical specification of BESCOM 2 Pin 45x45x5mm -510mm	Each			10	306	3060.00	10	3060.00
	Sub Total						**891961.46**		**891961.46**
	Add KRIDL Charges, LWC and Applicable GST at 11% As per Contract						**98116.00**		**98116.00**
	Grand Total						**990078.00**		**990078.00**

Asst. Engineer
KRIDL, BBMP, RR Nagar

Rupees Nine Lakh Ninety Thousand and Seventy Eight Only

Certificate: Certified that this work carried out satisfactorily.

AEE (Ele.) 25/9